

801  
IVAAFAHTRR DTGLSLEAVS DLEPYWEAVR GLYLPFESGT PGPTGRVYRH 850

851 900  
EIPGGQLSNL RAQATALGLA DRFELIEDNY AAVNEMLGRP TKVTPSSKVV

901  
GDLALHLVGA GVDPADFAAD PQKYDIPDSV·IAFLRGELGN PPGGWPEPLR 950

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951                                     1000
TRALEGRSEG KAPLTEVPPE EQAHL DADDS KERNSLNRL LFPKPTEEF

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1001  
EHRREFGNTS ALDDREFFYG LVEGRETLIR LPDVRTPLL V RLDAISEPDD 1050

1051 1100  
KGM RNVVANV NGQIRPMRVR DRSVESVTAT AEKADSSNKG HVAAPFAGVV

1101 T V T V A E G D E V K A G D A V A I I E A M K M E A T I T A S V D G K I D R V V V P A A T K V E G G 1150  
E

1151  
DLIVVVS

GTGACTGCTATCACCCCTTGGCGGTCTCTTGTGTAAGGAATAATTACTCTAGTGTGCGACT  
CACACATCTTCAACGCTTCCAGCATTCAAAAAGATCTTGGTAGCAAACCGCGGCGAAATC  
GCGGTCCGTGCTTTCCTGTCAGCACTCGAAACCGGTGCAGCCACGGTAGCTATTTACCCC  
CGTGAAGATCGGGGATCATTCCACCGCTCTTTTGCTTCTGAAGCTGTCCGCATTGGTACT  
GAAGGCTCACCAGTCAAGGCGTACCTGGACATCGATGAAATTATCGGTGCAGCTAAAAAA  
GTTAAAGCAGATGCTATTTACCCGGGATATGGCTTCCTGTCTGAAAATGCCAGCTTGCC  
CGCGAGTGC CGGAAAAACGGCATTACTTTTATTGGCCCAACCCAGAGGTCTTTGATCTC  
ACCGGTGATAAGTCTCGTGCAGTAACCGCCGCAAGAAGGCTGGTCTGCCAGTTTGGCG  
GAATCCACCCCGAGCAAAAAACATCGATGACATCGTTAAAAGCGCTGAAGGCCAGACTTAC  
CCCATCTTTGTAAAGGCAGTTGCCGGTGGTGGCGGACGCGGTATGCGCTTTGTTCTTCA  
CCTGATGAGCTCCGCAAAATTGCAACAGAAAGCATCTCGTGAAGCTGAAGCGGCATTCCGC  
GACGGTTCGGTATATGTCGAACGTGCTGTGATTAACCCCCAGCACATTGAAGTGCAGATC  
CTTGGCGGATCGCACTGGAGAAGTTGTACACCTTTATGAACGTGACTGCTCACTGCAGCGT  
CGTCACCAAAAAAGTTGTCGAAATTTGCGCCAGCACAGCATTTGGATCCAGAACTGCGTGAT  
CGCATTTGTGCGGATGCACTAAAGTTCTGCCGCTCCATTGGTTACCAGGGCGCGGGAACC  
GTGGAATTTCTGGTCGATGAAAAGGGCAACCACGTTTTTCATCGAAATGAACCCACGTATC  
CAGGTTGAGCACACCGTGACTGAAGAAGTCACCGAGGTGGACCTGGTGAAGGCGCAGATG  
CGCTTGGCTGCTGGTGCAACCTTGAAGGAATTTGGGTCTGACCCAAGATAAGATCAAGACC  
CACGGTGCAGCACTGCAGTGC CGCATCACACGGAAGATCCAAACAACGGCTTCCGCCCA  
GATACCGGAACATACACCGCGTACCGCTCACAGGCGGAGCTGGCGTTTCGTCTTGACGGT  
GCAGCTCAGCTCGGTGGCGAAATCACCGCACACTTTGACTCCATGCTGGTGAAGATGACC  
TGCCGTGATTTCCGACTTTTGAACCTGCTGTTGCTCGTGCACAGCGCGCTTGGCTGAGTTT  
ACCGTGTCTGGTGTGCAACCAACATTTGGTTTCTTGCGTGCCTTGCTGCGGGAAGAGGAC  
TTCATTTCCAAGCGCATCGCCACCGGATTTATCGGCGATCACCCACACCTCCTTCAGGCT  
CCACCTGCGGATGATGAGCAGGACGCATCTCGGATTACTTGGCAGATGTCACCGTGAAC  
AAGCCTCATGGTGTGCGTCCAAAGGATGTGTCAGCACCAATCGATAAGCTGCCCAACATC  
AAGGATCTGCCACTGCCACGCGGTTCCCGTGACCGCTGAAGCAGCTTGGCCAGCGCG  
TTTGTCTGTGATCTCCGTGAGCAGGACGCACTGGCAGTTACTGATACCACCTTCCGCGAT  
GCACACCAGTCTTTGCTTGCGACCCGAGTCCGCTCATTCGCACTGAAGCCTGCGGCAGAG  
GCCGTGCGAAAGCTGACTCCTGAGCTTTTGTCCGTGGAGGCTGGGGCGGCGGACCTAC  
GATGTGGCGATGCGCTTTCTCTTTGAGGATCCGTGGGACAGGCTCGACGAGCTGCGCGAG  
GCGATGCCGAATGTAAACATTAGATGCTGCTTCGCGGCCGCAACACCGTGGGATACACC  
CCGTACCCAGACTCCGCTCTGCCGCGCGTTTGTAAAGGAAGCTGCCAGCTCCGGCGTGGAC  
ATCTTCCGCATCTTCGACGCGCTTAACGACGCTCTCCAGATGCGTCCAGCAATCGACGCA  
GTCTTGAGAGACCAACACCGGTAGCCGAGGTGGCTATGGCTTATTCTGGTGATCTCTCT  
GATCCAAATGAAAAGCTCTACACCCCTGGATTACTACCTAAAGATGGCAGAGGAGATCGTC  
AAGTCTGGCGCTCACATTTCTGGCCATTAAGGATATGGCTGGTCTGCTTCGCCCAGCTGCG  
GTAACCAAGCTGGTCACCGCACTGCGCGGTGAATTCGATCTGCCAGTGCACGTGCACACC  
CACGACACTGCGGGTGGCCAGTTGGCTACCTACTTTGCTGCAGCTCAAGCTGGTGCAGAT  
GCTGTTGACGGTGCTTCCGCACCACTGTCTGGCACCACTCCAGCCATCCCTGTCTGCC  
ATTGTTGCTGCATTCGCGCACACCCGTGCGGATACCGGTTTGAGCCTCGAGGCTGTTTCT  
GACCTCGAGCCGTAAGGAGCTGTGCGCGGACTGTACCTGCCATTTGAGTCTGGAACC  
CCAGGCCCAACCGGTGCGCTCTACCGCCACGAAATCCAGGCGGACAGTTGTCCAACCTG  
CGTGCACAGGCCACCGCACTGGGCCTTGCTGATCGCTTCGAGCTCATCGAAGACAACCTAC  
GCAGCCGTTAATGAGATGCTGGGACGCCCCAACCAAGGTCACCCCATCTCCAAGGTTGTT  
GGCGACCTCGCACTCCACCTGGTTGGTGCGGGTGTAGATCCAGCAGACTTTGCTGCAGAC  
CCACAAAAGTACGACATCCAGACTCTGTATCGCGTTCTTGCGCGGCGAGCTTGGTAAC  
CCTCCAGGTGGCTGGCCAGAACCACTGCGCACCCGCGCACTGGAAGGCCGCTCCGAAGGC  
AAGGCACCTCTGACGGAAGTTCTTGAGGAAGAGCAGGCGCACCTCGACGCTGATGATTCC  
AAGGAACGTCGCAACAGCCTCAACCGCTGCTGTTCCCGAAGCCAACCGAAGAGTTCTC  
GAGCACCGTCGCCGCTTCGGCAACACCTCTGCGCTGGATGATCGTGAATTTCTTACGGA  
CTGGTTCGAGGGCCGAGACTTTGATCCGCTGCCAGATGTGCGCACCCCACTGCTTGT  
CGCTGGATGCGATCTCTGAGCCAGACGATAAGGGTATGCGCAATGTTGTGGCCAACGTC  
AACGGCCAGATCCGCCCAATGCGTGTGCGTGACCGCTCCGTTGAGTCTGTACCGCAACC  
GCAGAAAAGGCAGATTCCTCCAACAAGGGCCATGTTGCTGCACCATTCGCTGGTGTGTC  
ACTGTGACTGTTGCTGAAGGTGATGAGGTCAAGGCTGGAGATGCAGTGCAGTCAATCATCGAG  
GCTATGAAGATGGAAGCAACAATCACTGCTTCTGTTGACGGCAAGATTGAACGCGTTGTG  
GTTCTGCTGCAACGAAGGTGGAAGGTGGCGACTTGATCGTCTGCTTTCCTAA

FIG. 3A

MTAITLGGLLLKGIITLVSTHTSSTLPAPFKKILVANRGEIAVRAFRAALETGAATVAIYP  
 REDRGSFHRSFASEAVRIGTEGSPVKAYLDIDEIIGAARKVKADAIYPGYGFLSENAQLA  
 RECAENGITFIGPTPELTLDTGDKSRAVTAACKAGLPVLAESTPSKNIIDIVKSAEGQTY  
 PIFVKAVAGGGGRGMRFTVSSPDELRLKATEASREAEAAFGDGSVYVERAVINPQHIEVQI  
 LGDRTGEVVHLYERDCSLQRRHQKVVEIAPAQHLDPELRDRICADAVKFCRSIGYQGAGT  
 VEFLVDEKGNHVFIEMNPRIQVEHTVTEEVTEVDLVKAQMRLAAGATLKELGLTQDKIKT  
 HGAALQCRITTEDPNNGFRPDTGTITAYRSPGGAGVRLDGAAQLGGEITAHFDSMLVKMT  
 CRGSDFETAVARAQRALAEFTVSGVATNIGFLRALLREEDFTSKRIATGFIGDHPHLLQA  
 PPADDEQGRILDYLDVTVNKPVGVRPKDVAAPIDKLPNIKDLPLPRGSRDRLKQLGPAA  
 FARDLREQDALAVTDTTFRDAHQSLLATRVRSFALKPAAEAVAKLTPELLSVEAWGGATY  
 DVAMRFLFEDPWDRLELREAMPNVNIQMLLRGRNTVGYTYPYDPSVCRAFVKEAASSGVD  
 IFRIFDALNDVSQMRPAIDAVLETNTAVAEVAMAYSGDLSDPNEKLYTLDYLLKMAEEIV  
 KSGAHILAIKDMAGLLRPAAVTKLVLTALRREFDLVHVHTHDTAGGQLATYFAAAQAGAD  
 AVDGASAPLSGTTSQPSSLVAIVAAFAHTRRDITGLSLEAVSDLEPYWEAVRGLYLPFESGT  
 PGPTGRVYRHEIPGGQLSNLRAQATALGLADRFELIEDNYAAVNEMLRPTKVTPSSKVV  
 GDLALHLVGAGVDPADFAADPQKYDIPDSVIAFLRGELGNPPGGWPEPLRTRALEGRSEG  
 KAPLTEVPEEEQAHLDAADSKERRNSLNRLLFPKPTEEFLEHRRRFGNTSALDDREFFYG  
 LVEGRETLIRLPDVRTPLLVRLDAISEPDDKGMNRNVVANVNGQIRPMRVRDRSVESVTAT  
 AEKADSSNKGHVAAPPAGVVTVTVAEGDEVKAGDAVAII EAMKMEATITASVDGKIERVV  
 VPAATKVEGGDLIVVVS

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FIG. 3B